



Nevada Operations Office News

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National Nuclear Security Administration Scientists Conduct Successful Subcritical Experiment at Nevada Test Site

The National Nuclear Security Administration's Los Alamos National Laboratory successfully conducted *Mario*, at 12:00 p.m. (PST) today, at the Nevada Test Site.

Mario was the 18th subcritical experiment conducted at the Nevada Test Site. The experiment was designed to answer questions about ejecta and spall associated with the physical properties of plutonium. Ejecta is a forceful spray of particles propelled from a material's surface when it is compressed by a powerful shock wave. Spall is the breakup of material from the explosive shock wave reflected back from the surface.

Scientists conduct subcritical experiments in order to obtain technical information in support of the National Nuclear Security Administration's program to maintain the safety and reliability of the nation's nuclear weapons stockpile in the absence of nuclear testing.